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M/EB 532/64
17 November 1964
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MEMORANDUM FOR: Chief, Ballistic Missile and Space Division, OSI

ATTENTION:

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THROUGH:

Chief, Requirements Branch, Reconnaissance Group, CGS

FROM:

Chief, CIA/PID

SUBJECT:

Photo Analysis of the Sary Shagan FLIM FLAM
Tracking Station

REFERENCES:

- (a) Requirement C-SI-3-80,659
- (b) CIA/PID Project C 1397-63
- (c) PIC/JR-1010/61

1. This memorandum is a partial response to your requirement dated 4 October 1963 requesting a detailed photo analysis of each FLIM FLAM tracking facility located within the USSR. This memorandum covers only the Sary Shagan FLIM FLAM Tracking Facility. This partial response completes the overall requirement. Mensural data contained herein was accomplished by TID with a

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2. The Sary Shagan FLIM FLAM Tracking Facility is located at Instrumentation Site 1, Sary Shagan Antimissile Test Center. The geographic coordinates are 45-52-48N 73-37-25E.

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The facility consists of two sets of buildings with antennas on top. These two sets of buildings are designated Type A FLIM FLAM and Type B FLIM FLAM.

The Type A FLIM FLAM is the older of the two sets of tracking antenna buildings. It contains two tracking buildings (see Attachment 1, Items 1 and 2) and two support buildings (Items 3 and 4). There is a possible antenna on top of one of the buildings (Item 2) but no antenna can be observed on the other building (Item 1). However, this latter building does appear to have a probable pedestal to support an antenna.

The two tracking buildings have dimensions of 80 by 60 by 30 feet (Item 1) and 80 by 65 by 30 feet (Item 2), and are 400 feet apart, measured between inside wall. The azimuth orientation perpendicular to a straight line between the two buildings is 140/320 degrees.

Declass Review by NIMA/DOD

GROUP 1
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In addition, there are two rectangular support buildings (Items 3 and 4) located approximately midway between the two tracking buildings. Their measurements are approximately 85 by 50 feet.

There is a probable cooling pond near one of the tracking buildings (Item 1).

The Type B FLIM FLAM contains two tracking buildings (Items 5 and 6) and two support buildings (Items 7 and 8). One tracking building has a probable 50-foot parabolic dish mounted on top (Item 6). The other tracking building (Item 5) definitely has a 50-foot parabolic dish. The two tracking buildings have the same dimensions: 100 by 100 by 25 feet. The azimuth orientation perpendicular to a straight line drawn between the centers of the two tracking buildings is 140/320 degrees. The distance between the two tracking buildings, measuring from center-to-center, is 665 feet.

The two support buildings (Items 7 and 8) are located adjacent to one of the tracking buildings (Item 5) and have approximate dimensions of 100 by 40 feet. The location and approximate size of one of these support buildings (Item 7) is similar to those at all other Type B FLIM FLAM facilities.

There is a probable cooling pond near one of the tracking buildings (Item 5).

According to information dated April 1960 (PIC/JR-1010/61) four rhombic antennas are located at Instrumentation Site 1. The four rhombics are arranged in two day/night pairs, with both pairs being oriented toward Moscow. This communications station will be covered in more detail in another memorandum concerning communications at all Soviet FLIM FLAM facilities.

Also at Instrumentation Site 1 is an interferometer. However, it appears to be inactive.

The chronological development of the Type A and Type B FLIM FLAM facilities can best be detailed in the following tabular form:



Observation

No FLIM FLAM buildings observed.

Poor quality, but the two Type A buildings are discernible. However, stage of construction cannot be determined. No Type B buildings discernible.

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Observation

Type A buildings appear to be completed; however, photographic limitations prevent identification of any activity on top of the buildings. The two rectangular support buildings, probably utilized by the Type B facility, are first observed.

The two Type B buildings are first observed and appear to be in early construction stages. No antennas discernible. The two rectangular support buildings, midway between the Type A set of buildings, are first observed.

Possible parabolic dishes are observed on the Type B set of buildings.

A possible antenna is observed on one of the Type A buildings.

The description, as detailed in Part 2 of this memorandum, was obtained from this mission.

Following is a listing of [] photography utilized in this study:

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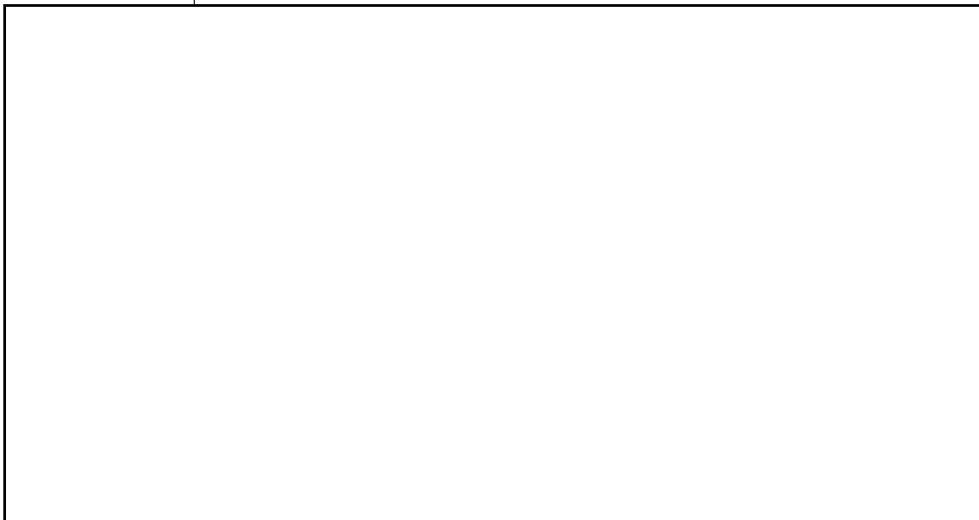
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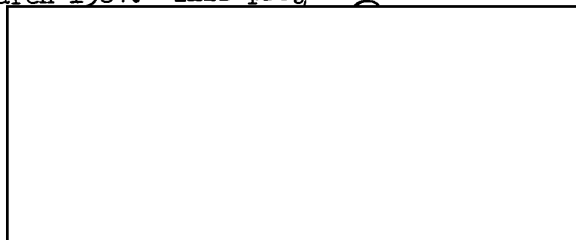
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3. The photo analyst on this project is [REDACTED] who may be contacted on extension [REDACTED] should you have any further questions concerning this project.

4. Per your telephone call of 6 November 1964, a detailed memorandum on the reported possible near space tracking facility (48-36N 58-07E) at Emba is cancelled. No additional information can be added to that previously reported in NPIC Report R-191/64 dated March 1964. This project is considered to be complete.

Enclosures:

- 1 - One (1) line drawing
(CIA/PID/MEB-P-999/64)
- 2 - One (1) photo
(CIA/PID/MEB-P-1000/64)



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SARY SHAGAN FLIM FLAM TRACKING STA.

CIA/PID/MEB-P-1000/64

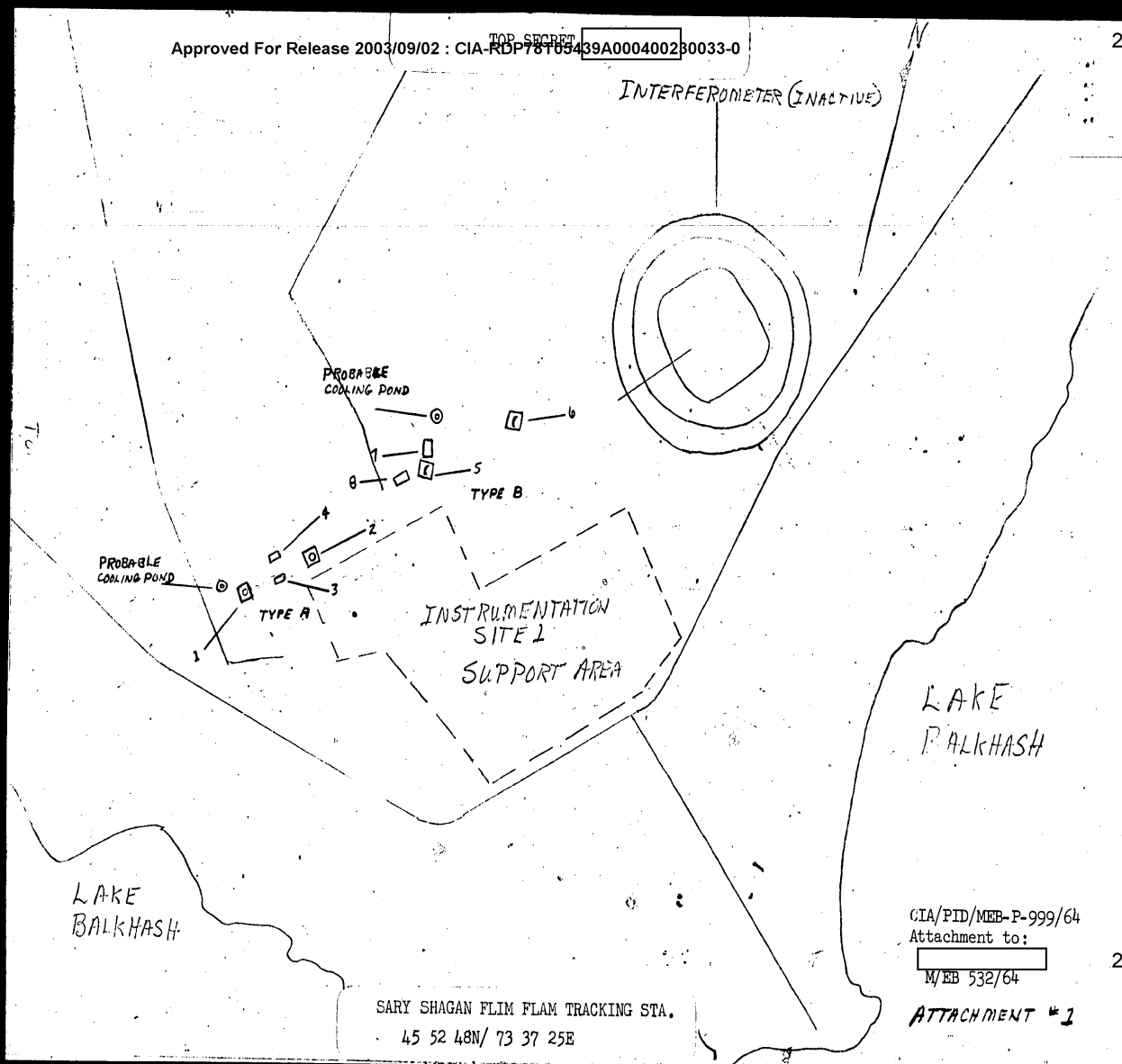
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CIA/PID/MEB-P-999/64
Attachment to:

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ATTACHMENT #1

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